



NASA Minority University Research and Education Project (MUREP)

Minority Institution (MI) Engagement

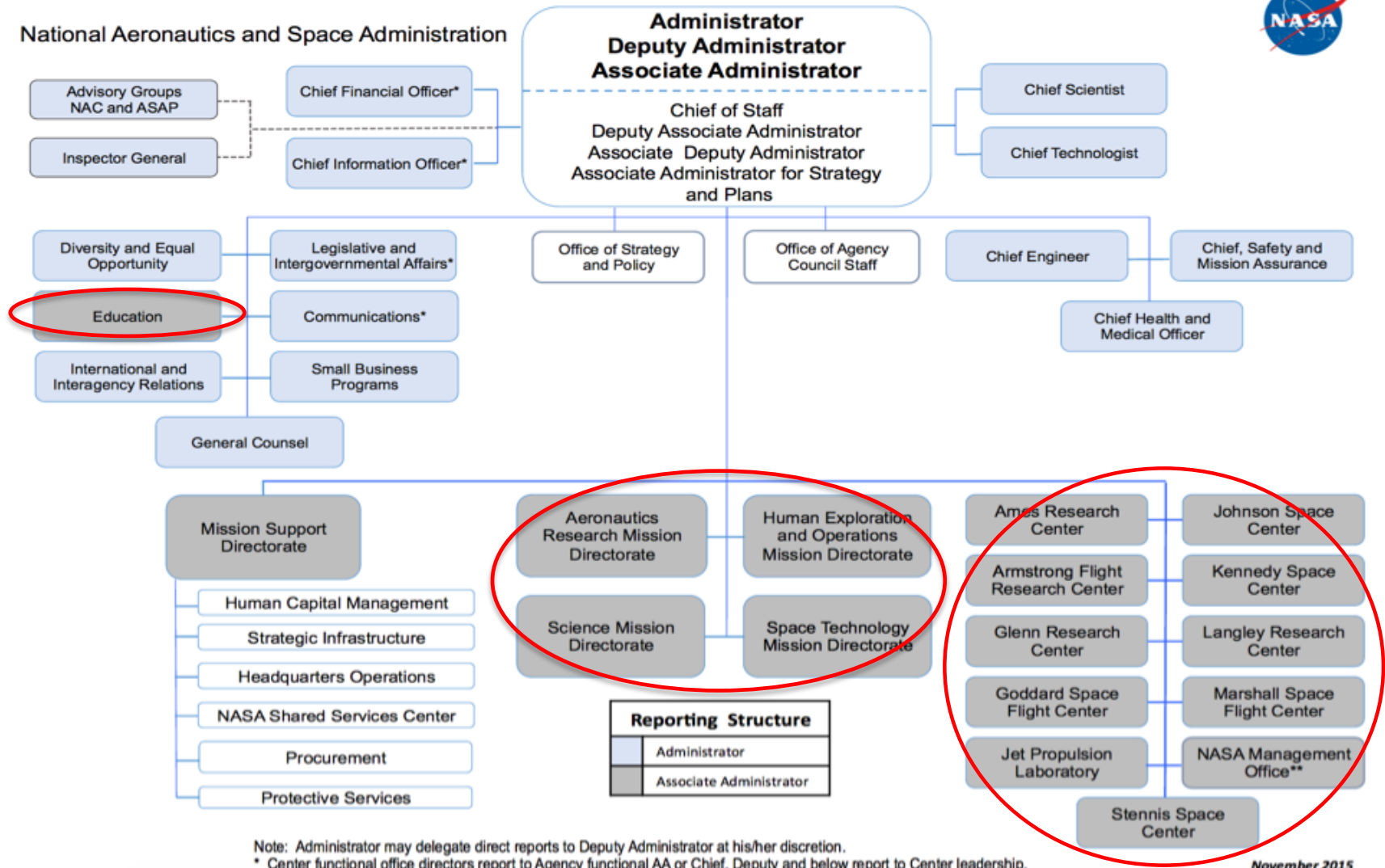
Torry A Johnson
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Goddard Space Flight Center
Greenbelt, Maryland



NASA



National Aeronautics and Space Administration



November 2015

www.nasa.gov

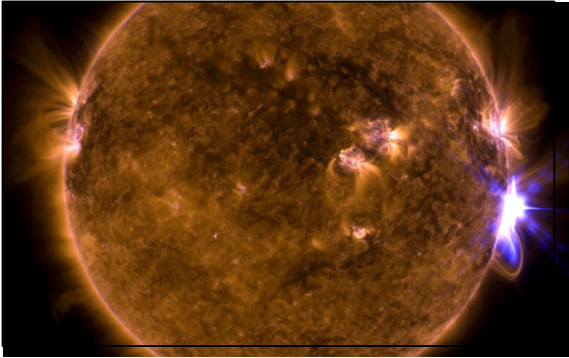
Inspire Engage, Educate, Employ.



NASA Mission Directorates

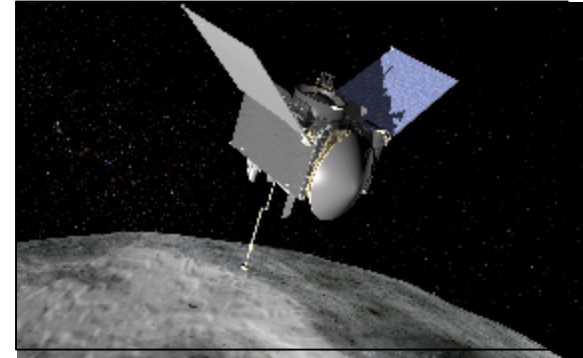
Science Mission Directorate

Dr. Thomas Zurbuchen, Associate Administrator



Space Technology Mission Directorate

Steve Jurczyk, Associate Administrator



Human Exploration and Operations

William Gerstenmaier, Associate Administrator



Aeronautics Research Mission Directorate

Dr. Jaiwon Shin, Associate Administrator



Aeronautics Research Mission Directorate Dr. Jaiwon Shin, Associate Administrator

ARMD is responsible for NASA's aeronautical research, which benefits the commercial, military, and general aviation sectors. ARMD is involved in the creation of the Next Generation Air Transportation System (NextGen)



<https://www.nasa.gov/aeroresearch>

Human Exploration and Operations William Gerstenmaier, Associate Administrator

HEO provides the Agency with leadership and management of NASA space operations related to human exploration in and beyond low-Earth orbit.

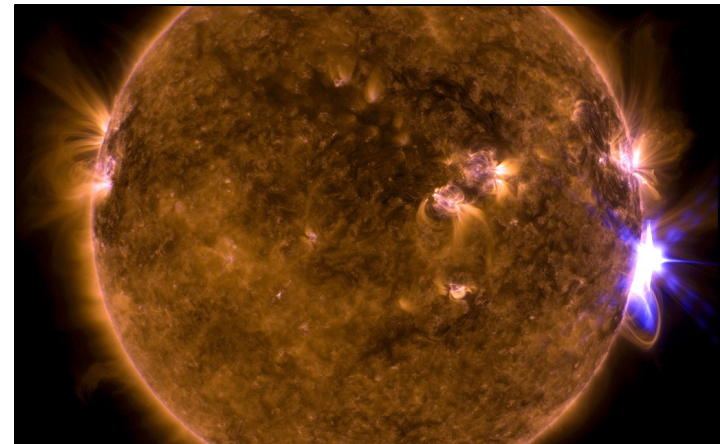


<https://www.nasa.gov/directorates/heo/>

Science Mission Directorate

Dr. Thomas Zurbuchen, Associate Administrator

SMD engages the United States' science community, sponsors scientific research, and develops and deploys satellites and probes in collaboration with NASA's partners around the world to answer fundamental questions requiring the view from and into space.



<https://science.nasa.gov>

Space Technology Mission Directorate Steve Jurczyk, Associate Administrator

STMD is responsible for developing the crosscutting, pioneering, new technologies and capabilities needed by the agency to achieve its current and future missions.



<https://www.nasa.gov/directorates/spacetech/home>

NASA Office of Education Budget Structure

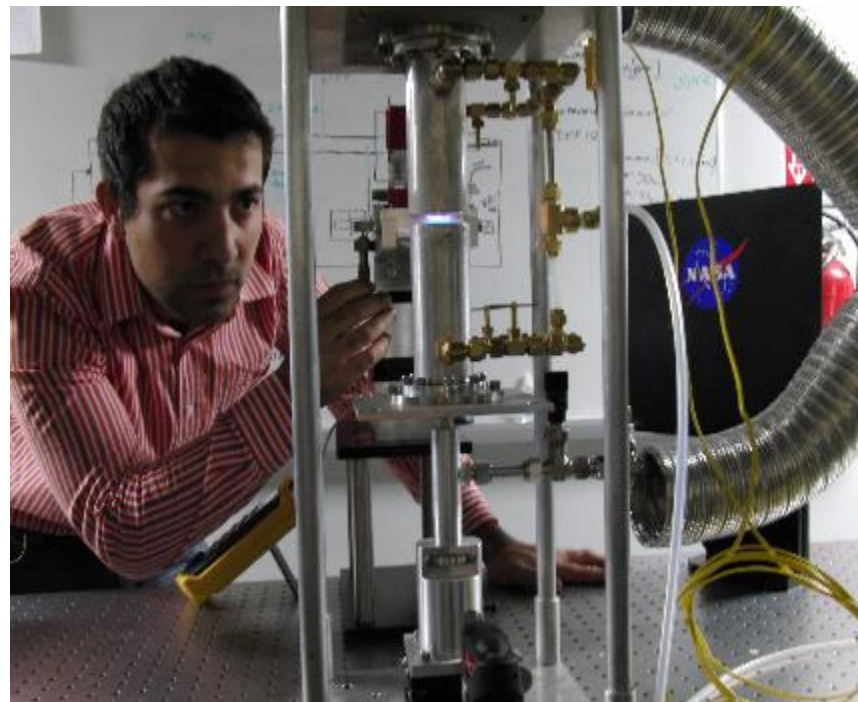
NASA's Office of Education consist of two programs and four projects:

Aerospace Research and Career Development (ARCD) Program	HQ Manager
National Space Grant College and Fellowship Program (Space Grant)	Joeletta Patrick
Experimental Program to Stimulate Competitive Research (EPSCoR)	Joeletta Patrick/ Jeppie Compton
STEM Education and Accountability (SEA) Program	HQ Manager
STEM Education and Accountability Project (SEAP)	Diane DeTroye
Minority University Research and Education Project (MUREP)	Joeletta Patrick

Minority University Research and Education Project (MUREP)

Our Mission

To enhance the *research, academic and technology capabilities* of *Minority Serving Institutions* by providing authentic *learning experiences* related to *NASA missions* to contribute to a *diverse future STEM workforce*.



Underrepresentation of Minorities in STEM Careers in the U.S.

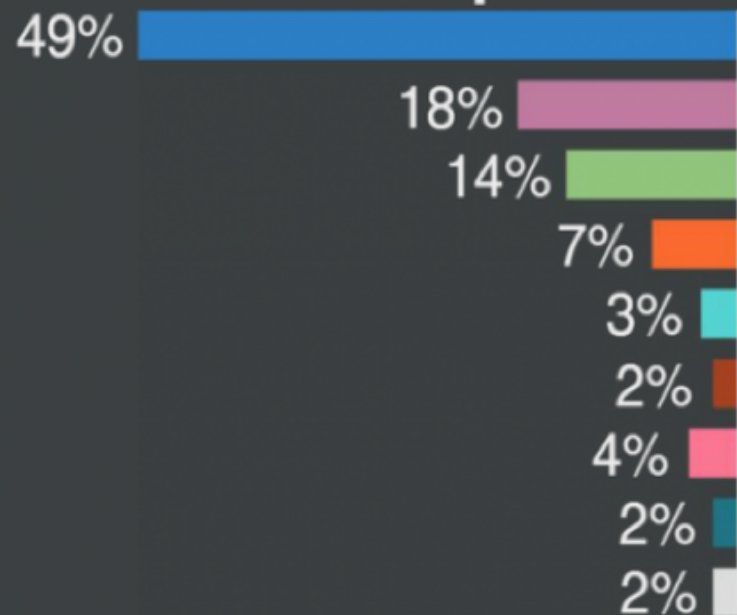
(Science, Technology, Engineering, & Mathematics)



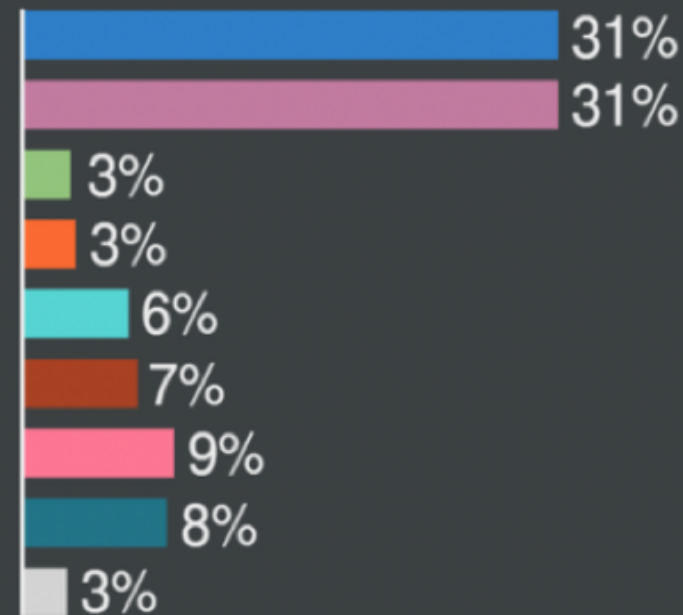
Workers in science and engineering occupations

In 2015, women and some minority groups were represented less in science and engineering (S&E) occupations than they were in the U.S. general population.

S&E Occupations



U.S. Population



Source: National Center for Science and Engineering Statistics, National Science Foundation
Women, Minorities, and Persons with Disabilities in Science and Engineering: 2017
<https://nsf.gov/statistics/wmpd/>

What is MUREP?

Agency's Response to Presidential Executive Orders for Minority Serving Institutions

MUREP is established to **increase NASA's responsiveness to federal mandates** related to Minority Serving Institutions (MSIs) and underrepresented and underserved communities, including women, girls, persons with disabilities and veterans.

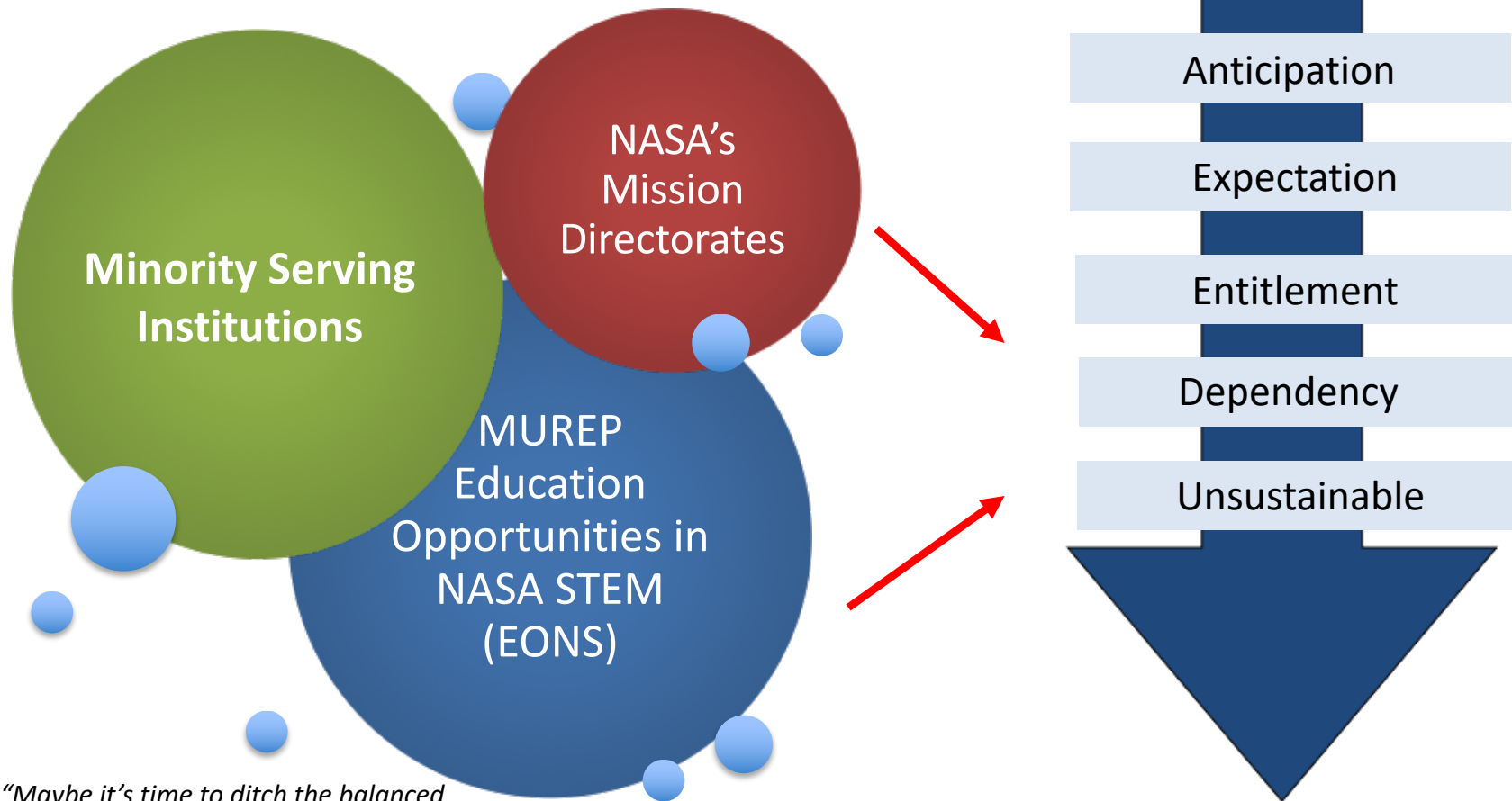
- ❑ **EO 13779:** Historically Black Colleges and Universities (HBCUs)
- ❑ **EO 13592:** Tribal Colleges and Universities (TCUs)/American Indian and Alaskan Native Serving Institutions (AIANSI)
- ❑ **EO 13555:** Hispanic Serving Institutions (HSIs)
- ❑ **EO 13515:** Asian American and Native American Pacific Islander – Serving Institutions (AANAPISIs)
- ❑ **EO 13621:** Predominantly Black Institutions (PBIs)

MUREP Activities

	Activity	Center	Lead
1.	Aeronautics Scholarship and Advanced STEM Training and Research Fellowships (AS & ASTAR) [MUREP Funded]	ARC	Elizabeth Cartier
2.	Earth System, Technology and Energy Education for MUREP (ESTEEM)	GSFC	Torry Johnson
3.	Educator Professional Development Collaboration (EPDC) [for NASA Ed]	LaRC	Gina Blystone
4.	Internships [MUREP Funded]	JSC	Veronica Seyl
5.	MUREP Aerospace Academy (MAA)	GRC	Priscilla Mobley
6.	MUREP Community College Curriculum Improvement (MC3I)	JPL	Roslyn Soto
7.	MUREP Educator Institutes (MEI)	SSC	Kelly Martin-Rivers
8.	MUREP for American Indian and Alaskan Native STEM Engagement (MAIANSE)	GSFC	Torry Johnson
9.	MUREP Institutional Research Opportunity (MIRO)	AFRC	Dave Berger
10.	MUREP Other Opportunities (MOO)	JSC	Misti Moore
11.	MUREP STEM Engagement (MSE)	KSC	Theresa Martinez
12.	NASA Community College Aerospace Scholars (NCAS) [MUREP Funded]	JSC	Alicia Baturoni Cortez
13.	MSI Conference Support	Varied	Varied

Unfocused Grant Making

Old MUREP



"Maybe it's time to ditch the balanced portfolio and focus on outcomes" – Robert Lupton

New MUREP Engagement

NASA Mission Directorates

- Student Opportunities
- MSI Partnerships and Sustainability
- Mission Directorate Collaborations
- K-12 Engagement

- Contribute to solving Mission Directorate problems
- Increased STEM Awareness
- Increase retention of Underserved and Underrepresented groups in STEM
- Enhance MSI infrastructure
- Enable MSI sustainability

Best Practices - University Partnership

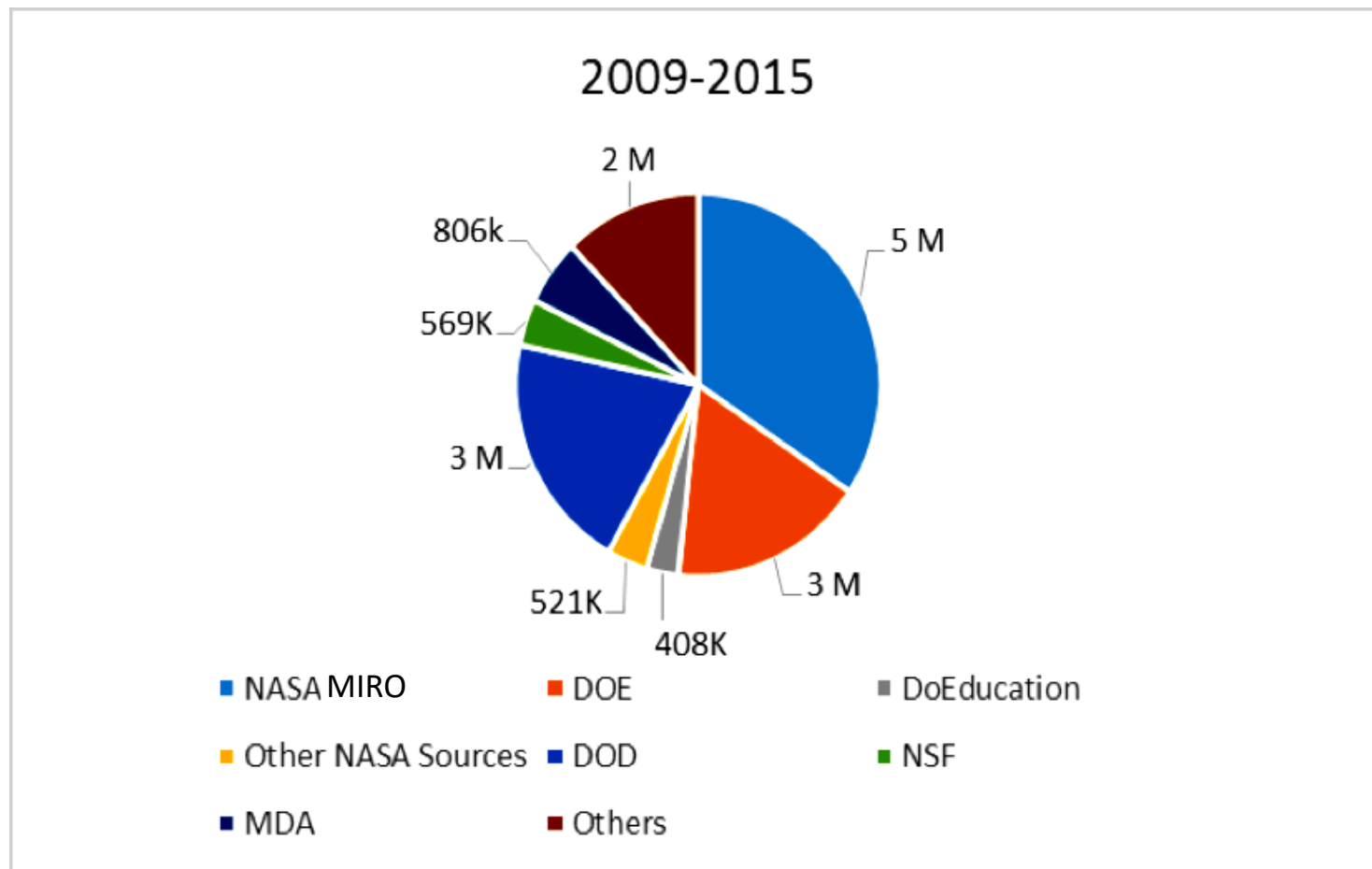
- MUREP Institutional Research Opportunity (MIRO)
 - Competitive Solicitation
 - Up to \$1,000,000 a year for 5 years
 - strengthen institutional infrastructure
 - expand research and educational programming
 - position institutions for partnerships to acquire additional funds

Best Practice University Partnership Cont.

- Multiple Funding Sources
 - Institutional funding
 - Federal funds from NASA, U.S. Department of Defense, U.S. Department of Energy, and other agencies
 - Contractor funding from industry, research institutes, and as a subcontractor for other higher education institutions
- Students, faculty, stakeholders, institutional leadership, and staff are fully engaged in planning and implementation
- Strong relationships with partners
 - Periodic meetings, collaborative decision making, collective work, shared responsibility, healthy communications, etc.
 - Research collaboration to support missions of industry, research institutes, and government agencies.
- Quality Communication Plan for the Center
 - website, social media, publications, etc.
- Sustainable Research Center
 - Business model and organizational structure
- Evaluation
 - Identifying strengths and weaknesses, check against standards, academic program accreditation, student assessment, program evaluation, etc.
- Program pipeline of K-12 and higher education students prepared for STEM degree attainment and workforce placement can be facilitated and supported

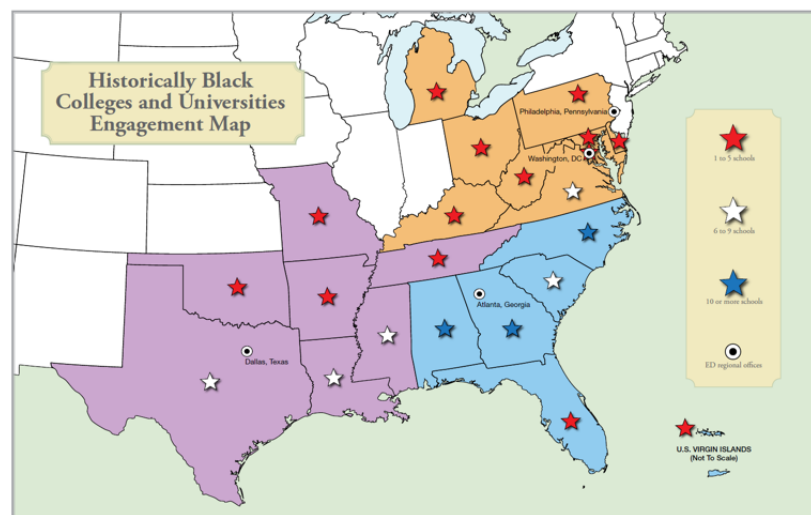
Best Practice University Partnership Cont.

- Multiple Funding Sources




How to get started

- Outline your Goals and Target Audience
 - Students, Faculty, Institutions
- Listening Session with the Stakeholders
- Create Win-Win Scenarios
- One size does not fit ALL
- Evidence-Based Practices
- It's a Process/Investment



How to get started Cont.


- Register in NSPIRES
- Search for EONS (see flyer)



NSPIRES
NASA Solicitation and Proposal Integrated Review and Evaluation System

Home NASA Research Help Login

NSPIRES Time: Oct 23, 2017 07:31 AM EDT



NSPIRES Home

- ▶ Solicitations

Getting Started

- ▶ NSPIRES Help
- ▶ Getting an Account

Help Desk

If you need help or have any questions regarding the NSPIRES website, please contact the NSPIRES Help Desk at (202) 479-9376 Mon-Fri, 8:00 AM to 6:00 PM EST/EDT, or by email at nspires-help@nasaprs.com.

NASA Research Opportunities

Supporting research in science and technology is an important part of NASA's overall mission. NASA solicits this research through the release of various research announcements in a wide range of science and technology disciplines. NASA uses a peer review process to evaluate and select research proposals submitted in response to these research announcements. Researchers can help NASA achieve national research objectives by submitting research proposals and conducting awarded research. This site facilitates the search for NASA research opportunities.

NASA Research

▶ **Solicitations**

Search for and view open, closed, past, and future NASA research announcements. The full text of the [solicitation announcements](#) can be viewed and downloaded.

Solicitations and selected proposals for years prior to NSPIRES implementation, January 1, 2005, were posted manually; therefore, some postings for years 2000-2004 may not be as complete as those posted through the NSPIRES system from 2005 to the present.

▶ **Getting Started**

To submit a research proposal to NASA, individuals and the organizations with which they are affiliated must be registered in NSPIRES. Individuals may register at any time.

Organizations are required to have a valid registration with the System for Award Management (SAM) before they can register in NSPIRES. See [Registration Information](#) for more details on user and organization registration.

Research.gov

[Research.gov](#) is a partnership of federal research-oriented grant making agencies. Research.gov is led by the National Science Foundation.

WARNING:

This is a U.S. Government computer. By accessing and using the computer system, you are consenting to the use of system monitoring. Unauthorized use of, or access to, this computer system may subject you to disciplinary action and criminal prosecution.

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Site News

NASA Grants and Cooperative Agreements Regulations and Guidance

New regulations and guidance has been released.

▶ [Continue Reading](#)

NRA/CAN Proposer's Guidebook


Available online

▶ [Continue Reading](#)


Gmail and NSPIRES email

Your Gmail could be flagging NSPIRES emails as Spam.

▶ [Continue Reading](#)



Curator: NASA Research and Education Support Services
NASA Official: Latrina Y. Braxton
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[Website Comments / Technical Issues](#)



Recommended Quick Wins

- Students
 - Internships (funded or unfunded)
- Student-Faculty teams
- 2-page White Papers
- Invite faculty to be reviewers
- Meet with the White House Initiative on HBCUs
- Connect with **Space Grant Consortia** in your state

Contact MUREP at HQ

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